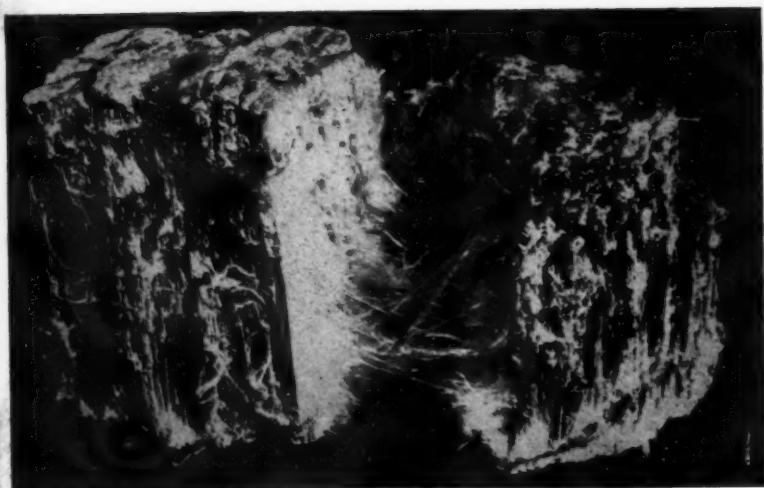


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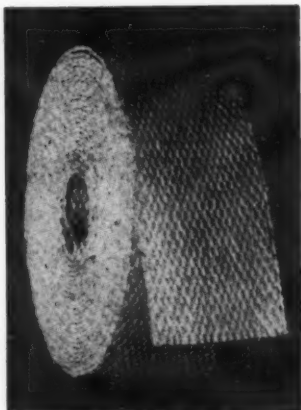
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A NEW MONTANA CHRYSOTILE DISCOVERY

By David A. Boots, Geologist

The writer of this article was fortunate to have been able to make a preliminary geologic examination of what may develop into a commercially important source of chrysotile asbestos. This deposit, situated in metamorphosed limestone, lies in Beaverhead County of southwestern Montana. The area of the deposit is mountainous but is, however, accessible by four wheel drive vehicle.

The amount of "ore" contained in this deposit is not known at present but the results of limited exploration work coupled with the surface exposures of fibre are sufficient to create much interest in its future. This discovery becomes even more impressive in light of present day shortages of low iron chrysotile. At present the property, as mining claims, is controlled primarily by the original locator but field examination by several major companies is now under way.

The area of the deposit is severely faulted and folded making structural interpretations quite difficult. The rocks of the vicinity are primarily Precambrian schists, marbles and quartzites and the Devonian Jefferson dolomite. The former has been intruded by nearly pure quartz dikes in several localities.

The asbestos occurs in a Precambrian marble formation which probably represents a portion of the southwestern Montana Cherry Creek series. Above and below the marble is a dark hornblende schist. The marble formation crops out as two linear northwest-southeast trending elements over a mile long and separated by the schist. The elements abutt against each other in the northwest making, in general, a "V". The quartz dikes have the same trend as the marble and both quartz and marble dip as steeply as 50 degrees in some areas.

The marble is a coarse grained rock which everywhere carries particles of serpentine ranging in size from very minute flecks to large bands or nodules several feet in length. The serpentine generally comprises 20 to 50 per cent of the entire rock and hence the rock name ophicalcite would be more appropriate. The rock also carries musco-

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vite books up to $\frac{1}{2}$ inch long but more generally as fine flakes developed along bedding surfaces.

The serpentine marble has been observed at two separate points to pass into tremolite marble. The tremolite has developed so extensively that in places it makes up almost the entire rock. It predominantly has the form of radiating crystal aggregates. It is this tremolite which suggests a possible explanation of the asbestos formation.

The chrysotile has two main modes of occurrence: (1) as veins in serpentine which has developed along the bedding plains, (2) as veins which concentrically surround nodules of serpentine.

The first occurrence will probably prove the most important commercially as the fibre extends long distances along the formational dip. The chrysotile bearing serpentine is a nearly pure amber to brown or green antigorite and occurs in bands up to 1 foot wide along the bedding planes. The bands may be isolated by several feet of marble or may be very numerous and closely spaced or may be even nonexistent in some areas. The asbestos veins contain fibre up to $1\frac{1}{4}$ inches long and have been roughly measured to aggregate 6 inches of fibre in 20 feet of section. Some of the fibre is quite short but many of these veinlets so completely permeate the rock that 50 per cent and more of the rock is composed of fibre.

Of more petrographic interest is the occurrence of chrysotile surrounding nodules of barren serpentine. The nodules are ellipsoidal in shape and range in size from a few inches to a few feet measured along the major axes. The nucleus of the nodule is always a pure green serpentine; the banding consists of alternating layers of chrysotile and barren serpentine. Usually each succeeding band decreases in thickness toward the nucleus. The thicknesses range from mere traces up to 1 inch and as many as 15 individual chrysotile bands have been counted around a nucleus. The nodules may occur as isolated individuals or as very numerous groupings in which half of the rock may be composed of these nodular bodies.

A completely satisfactory genetic explanation of these nodules is difficult. However, a plausible solution may be that the serpentine nodules are pseudomorphic

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after chert nodules which occurred in the original limestone. The bedded serpentine may have developed from siliceous layers or beds within the limestone. During metamorphism the silica rich zones were altered to tremolite (a hydrous calcium magnesium silicate) a section of which has been preserved from further alteration at this Montana location. The tremolite was later transformed into serpentine. Stresses set up within the marble-serpentine formation due to later intrusions fractured the serpentine and made possible the development of chrysotile.

This is a reasonable and logical sequence; the primary difficulty lies in the type of forces necessary to produce concentric fractures in a solid homogeneous serpentine body. Apparently these forces would have to take advantage of weaknesses within the nodule in order to "pop" the solid into layers. As far as can be determined there are no such weakness zones in either the serpentine nodules or the radiating tremolite aggregates.

A.S.T.M. — SYMPOSIUM ON STRUCTURAL SANDWICH CONSTRUCTIONS

Great strides have been made in the uses and applications of sandwich construction in both civilian and military use. This advance and increased popularity is largely due to the many recognized advantages of sandwich construction, including high strength to weight ratio and good stiffness factor, as well as to the growing confidence in the integrity of sandwich structures.

This symposium, which was presented at the Second Pacific Area National Meeting in Los Angeles, September 1956, was developed by ASTM Committee C-19 on Structural Sandwich Constructions to bring together the data developed since the previous symposium was presented by the committee in 1951.

The book is well illustrated with photographs, charts and diagrams and several selected bibliographies increase its usefulness. It may be purchased from the American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa., at \$2.75 a copy.

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RUBEROID MARKS 71st ANNIVERSARY

Herbert Abraham, chairman of The Ruberoid Co. marked the firm's 71st Anniversary on October 20th by calling it a time "to show our appreciation" to long-service employees and a time "to review our accomplishments."

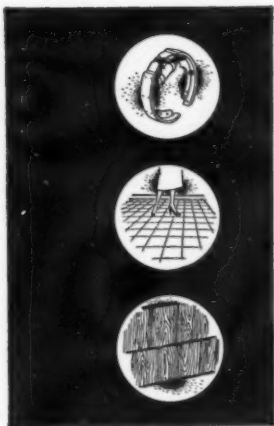
A leading producer of asphalt and asbestos building materials, Ruberoid was founded October 20, 1886.

At company plants throughout the country, formal celebrations were held by veteran employees. Seventeen new members were taken into the 25ers, an honorary group of men and women who have been with the company for a quarter century or more. This long-service organization now contains 368 members, about nine per cent of all Ruberoid employees.

Mr. Abraham, a veteran of more than 54 years with Ruberoid, pointed out that this year's anniversary calls for "a double celebration." Twenty-five years ago he said, Ruberoid introduced asbestos-cement siding shingles. Now an important company product and one of the nation's most popular residential building materials, asbestos-cement siding was developed by Ruberoid in 1932 as a means of renovating houses. Since the siding would neither burn nor rot and needed no painting for preservation it quickly caught the public's imagination and was soon used throughout the country. Prior to 1932, asbestos-cement shingles had been widely used as a high quality roofing.

Mr. Abraham recalled that just after World War II when the need for new housing material was critical, Ruberoid introduced asbestos-cement siding in colors. Then, one improvement after another led to today's superior products, Autoclaved Clapboard and Vitramic in Trend Colors.

"Recalling the years of effort and ingenuity exerted to create a place for Ruberoid siding is small praise for the men and women whose determination made it possible," the chairman declared. "The real tribute to them," he said, "are the millions of homes protected by Ruberoid products and the immense industry which has grown up from an idea initiated by Ruberoid employees."



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After one year of continuous research, conducted under invitation of the Italian Air Forces Office in Rome, Societa' Italiana Per L' Amianto, of Leumann (Torino) Italy, have perfected a special asbestos cloth. Owing to its properties the cloth represents an innovation in the making of protective antifire asbestos clothes.

The cloth produced with pure asbestos fibres (100% asbestos) can easily withstand 500°C. temperature (about 1,000°F.). It is covered with a special aluminum-silicon varnish and is very light—less than 500 grs. per sq. meter, alluminated and less than 400 grs. per sq. meter, pure. At the same time it shows exceptional textile strength — over 800 Kilos per meter on the warp and over 500 Kilos per meter on the woof.

The lightness of the cloth together with remarkable softness and flexibility produces multi-layers antifire protective clothes, assuring perfect protection against fire and heat.

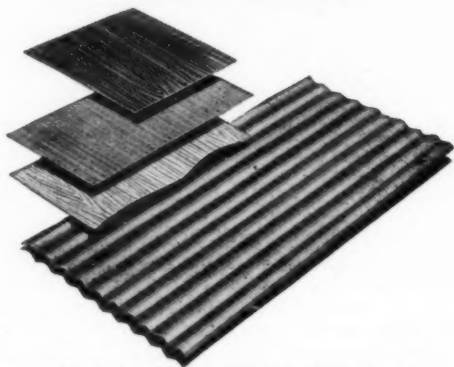
It is interesting to know that a 5 layer overall weighs less than 5 Kilos. A complete protective set consists of overalls, pair of gloves, pair of boots and a hood. Results obtained with such new clothing have been more than satisfactory. A person wearing a pair of gloves has been able to keep his hand over the coal gas flame for 40 seconds without damage.

The following temperatures have been registered on the opposite side of a 5 layer clothing placed for five minutes over a flame at 800°C.:

After 30 seconds	room temperature		
1 minute	35°	centigrade	— average
2 "	45°	"	"
3 "	55°	"	"
4 "	65°	"	"
5 "	70°	"	"

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"THIS'LL BURN YOU UP"

In the game of fire, one strike and you may be out.

That's the advice of a new publication by the National Safety Council, "This'll Burn You Up."

The publication — in a format resembling a book of matches — says a fire can (1) put you out of work, (2) put you in a hospital, or (3) cause your death.

"When things get hot, though, "it advises, "keep cool" and —

1. Report a fire and turn in the alarm.
2. Get the right extinguisher
3. Direct the firemen to the fire

The "book of matches" booklet, in an attempt to point up the seriousness of fires, notes that every day fires claim 17 lives, hundreds of jobs, \$800,000 in industrial property — all because of carelessness.

Single sample copies of "This'll Burn You Up" and information on quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

A manual of application methods for flat asbestos-cement sheets has been issued by the Asbestos-Cement Products Association. This manual has been prepared as a guide for the application, cutting, handling and storing of flat asbestos-cement sheets. The methods presented cover application under usual construction conditions.

The manual is available to dealers, contractors and applicators, free of charge. A copy may be obtained by writing to the Asbestos-Cement Products Association, 509 Madison Avenue, New York 22, N. Y.

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GOOD POINTS OF TWO INSULATIONS EMPLOYED AT FERNDALE REFINERY

Two insulation materials — like two heads — can sometimes be better than one. Engineers for General Petroleum Corporation figured it that way in designing insulation for the TCC block at Ferndale Mobilgas Refinery on Georgia Strait some 100 miles north of Seattle, Washington.

This refinery, the first major unit in northwest United States, went on stream in 1954 but is still undergoing major expansion. Among its distinctions is the fact that it gets a major part of its crude oil supply through the \$86 million Trans Mountain Oil Pipe Line from Edmonton to Vancouver, Canada, and a 30-mile branch line to the refinery.

As in all modern refineries, Ferndale has a wide range of operating temperatures. The Thermoform Catalytic Cracking reactor operates at 940 F. with some other portions such as the surge separator operating at 1,000 F. At the other extreme, the butane drier operates at 100 F. In between, there is a vast range of temperatures with about as many operations below the medium temperature limit of 600 F. as above that figure.

In specifying insulation for these varying temperatures, General Petroleum and Bechtel Corporation engineers indicated one type of insulation for operations below 600 F. and another type over that limit with several alternates permitted. The insulation contract for the TCC block was awarded to E. J. Bartell Co. of Seattle for the use of 85% Magnesia insulation in the lower temperature range and calcium silicate insulation on hotter piping and equipment.

In making this division, full advantage was taken of the insulating values of both materials including conductivity, heat resistance and other properties.

Interesting examples of the use of both insulating materials are found in the vacuum column and the TCC bubble tower. In the vacuum column, the top head, top section and top cone have operating temperatures of 225, 330 and 350 F. respectively. These sections were insulated with 1½-in. thick 85% Magnesia for the head, and 2-

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in thick magnesia on the top section and cone. From there down, the column temperature ranges from 560 F. to 790 F. and is insulated with 3-in. and 3½-in. thick calcium silicate. This later insulation is applied in double layer construction with staggered joints to prevent through joint openings due to expansion.

The TCC bubble tower is similarly insulated. The lower 40 ft. operates at 600 and 605 F. and is insulated with 3-in. and 3½-in. thick calcium silicate. The top section, 44 ft. is insulated with 85% Magnesia with temperatures and insulation thickness as follows: 500 F., 2½-in.; 365 F., 2-in. and 275 F., 1½-in.

Pipe insulation for pipes up to 600 F. is 85% Magnesia ranging from nominal 1-in. thick pipe sections for 1½-in. pipe up to 300 F. to nominal 3-in. thick insulation on 14-in. and larger pipe at the upper limit of 600 F. All of this insulation is applied in single layer.

Calcium silicate insulation is used on all piping above 600 F. On 1½-in. and 2-in. pipe, nominal 2-in. thick calcium silicate insulation was applied in single layer. On 3-in. and larger pipe at elevated temperatures, calcium silicate from 2½-in. to 3½-in. thick was applied in double layer.

Insulation, applied for personnel protection rather than heat conservation, on piping and equipment was generally thinner and applied in single layers.

Other aspects of the insulation application included special attention to weatherproofing, flashing, insulation supports and fastenings, expansion joints, and finishes to assure long life and minimum maintenance, heat conservation and temperature control, and appearance.

(Reprinted from M.I.M.A. News)

"The Man From Missouri," the full color-sound motion picture will tell how leading builders are using Asbestos-Cement siding to increase sales of medium and higher priced homes. The film will be available for showing before builder and applicator groups in early 1958. For information write: Asbestos-Cement Products Association, 509 Madison Ave., New York 22, N. Y.

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ECONOMIC SURVEY

The nation's leading business and university economists expect 1958 to be a year of cross currents, with continued inflation pushing the major dollar indicators of activity to new highs according to the eleventh annual survey of economists' opinion conducted by F. W. Dodge Corporation.

According to an analysis by Dodge vice president and economist George Cline Smith, the 202 economists participating in the current survey indicated in their comments widespread concern over the outlook for next year.

The composite opinion of the economists polled during October revolved around four main points, according to Dr. Smith: (1) Total dollar output in 1958, as measured by Gross National Product, would rise slightly; (2) Hourly wage rates would continue to go up in all major categories; (3) The cost of living would continue to rise in 1958, and wholesale prices would also go up, but not quite as rapidly; (4) Real output (as measured by the Federal Reserve index of industrial production) will dip in the first half of 1958, and then rise slightly during the last six months.

"The trend of the numerical estimates given by the 202 participating economists is not greatly different from last year's survey," Dr. Smith said, "but there is a decided difference in the tone of the comments which the economists added to their questionnaires.

"There was a general feeling in last year's survey that 1957 would be an all-time record year. In the current survey, while the figures estimated would for the most part be at new record levels, the comments paradoxically take little note of this fact. Instead, the words 'decline' and 'recession' appear in the comments with some frequency, and none of the comments expresses real optimism for the immediate future.

"The apparent paradox between the generally increasing numerical estimates and the less optimistic tone of the comments seems to rise from the general feeling that the rise in the dollar indicators next year will be

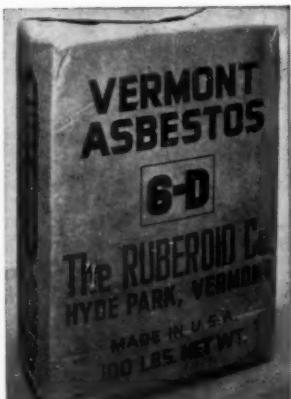
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due largely, if not entirely, to inflation," explained Dr. Smith.

Practically all of the economists expected wage rates to rise next year, Dr. Smith reported. On the average, they expected the consumer price index to rise from its current level of about 121 to 123 by the end of 1958, and they thought the BLS wholesale price index would go from its current 118 to 119 by the end of 1958. They expected gross national product to be running at the annual rate of \$449 billion in the fourth quarter of 1958, as contrasted with the second quarter 1957 rate of \$434 billion.

"ASBESTOS" will be glad to lend its copy of the complete text of Dr. Smith's analysis to interested readers.

A. S. T. M. SYMPOSIUM ON RADIATION EFFECTS ON MATERIALS

This symposium is the first of a series sponsored jointly by ASTM Committee E-10 on Radioisotopes and Radiation Effects and the Atomic Industrial Forum. It was presented at the ASTM 2nd Pacific Area National Meeting, Los Angeles, Calif., September 1956. The symposium is divided into three parts: (1) Theory of Radiation; (2) Radiation Facilities and Mechanics of Testing; (3) Experimental Tests and Results on (a) Fuel and Graphite Materials, (b) Structural Materials, including Organics.

This symposium will be of special value to those interested in the design and operation of nuclear reactors. Following the introduction, the three parts contain a total of 16 papers, most of them accompanied by discussion. The book contains numerous tables of data and is well illustrated with photographs, diagrams and graphs. Several of the papers have bibliographical references.

Copies of this book (ASTM Special Technical Publication 208) may be obtained from the American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa., at \$4.75 a copy.



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Bauer processing equipment for various industries is illustrated and described in the new, 4-page bulletin No. 57, recently released by The Bauer Bros. Co., 1826 Sheridan Avenue, Springfield, Ohio.

Equipment shown for use in pulverizing, fiberizing, granulating and blending various materials includes Bauer hammer mills, double and single disc attrition mills, single and double roll crushers and magnetic separators.

Bulletin No. 57 also contains data on the following Bauer products for pulp, paper and board mills: digesters, Centri-Cleaners, double and single disc refiners, "Pump Through" refiners, and Pressafiners.

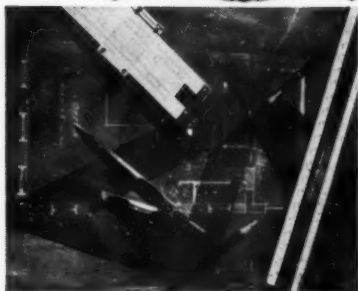
A stream lined schedule of top notch program events combined with another record-breaking display of building products is rapidly shaping up for the Annual Convention and Exposition of the National Association of Home Builders to be held in Chicago January 19 through 23, 1958.

Applications for exhibit space for the '58 show are the heaviest in the show's history, according to Paul S. Van Auken, Convention and Exposition Director. Applications were received from 65 manufacturers who have not previously exhibited at the builders' show.

The Exposition of Chemical Industries will return to New York after an absence of 6 years and will be staged for the first time in the Coliseum during the week of December 2-6.

The 26th exposition will occupy all four floors of the New York Coliseum, and with space assigned to nearly 550 exhibitors, this year's display of new developments and recent innovations in all phases of the chemical process industries will surpass all previous expositions in interest and size, according to exhibit officials.

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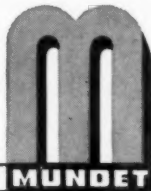
You can depend on Mundet for these benefits:

1. A full line of thermal insulations for all temperature ranges ...
2. Prompt attention to your needs and speedy deliveries from nearby Mundet warehouses

MUNDET INSULATION PRODUCTS

include "custom-molded" 85% Magnesia heat insulation and "Tri-Calite" insulation for higher temperatures. Also Mundet's Expanded Polystyrene Pipe Covering and Board Insulations, and Corkboard and Cork Pipe Covering for low temperature.

MUNDET CORK CORPORATION
Insulation Division
7101 Tonnelle Ave., North Bergen, N. J.
OFFICES IN PRINCIPAL CITIES



COMPLETE INSULATION SERVICE ...

MARKET CONDITIONS

GENERAL BUSINESS.

Business in general has definitely slowed down in the past few months. The stock market has dropped sharply reflecting concern as to the future course of corporate earnings. In many lines competition for the business available is more severe than for some years past. Much of the present lack of activity can be attributed to the tight money situation which is causing many concerns to exercise more stringent controls over inventories than heretofore. This is particularly true in the case of capital goods producers. The cutbacks in defense expenditures have seriously affected many individual companies, from the largest prime contractors down to the smallest subcontractors. Successful launching of the Russian satellite has caused an about face in proposed curtailment of expenditures for basic research and it is already obvious that increased emphasis will be placed on our rocket and missile programs.

We are going through a period of readjustment which many feel has been long overdue. The business community in general, is reasonably optimistic for the future and seems resigned to the fact that even though the current situation is bound to hurt many companies and individuals the pain may be worth it if the result is a substantial lessening of inflationary pressures which have held sway for such a long time.

ASBESTOS — RAW MATERIAL

Shipments of asbestos fibre during the month of October maintained a nearly average rate for the season in spite of the very heavy shipments made during September to anticipate the price advance.

While inventories were reduced somewhat during September, all grades are in ample supply.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. At present the market is very spotty. A slight improvement in recent weeks has been experienced which is attributed to low inventories by equipment accounts. By the first of the year major textile

FAST FILTERING FIBRE FOR ASBESTOS — CEMENT

ADVOCATE MINES LIMITED has extensive reserves of slightly harsh, quick draining, chrysotile asbestos near tidewater in Newfoundland.

PRODUCTION PLANS are being made to begin large scale output of raw fibres in two years' time.

ASBESTOS-CEMENT MANUFACTURERS will find that the unusual quality of the fibre and its location permit low fabricating cost and high product strength.

MODERN MILL DESIGN will permit selective production of any fibre grade in Canadian Groups 4, 5, 6, plus shorts and floats.

We will be glad to forward samples and further information on request.

ADVOCATE MINES LIMITED

Suite 908, 330, Bay Street, Toronto,
Canada.

manufacturers will have exhausted their stocks of fibre purchased prior to October 1st. The higher priced fibre will be probably be reflected in modest increases in the prices of asbestos textiles.

Asbestos Brake Lining. The majority of wholesalers report 8-10% increase in 1957 sales to date in comparison with the same period last year. This has been considered a good year and should wind up about 7-10% ahead of last. If the new models coming out should sell in heavy demand a good year is expected on equipment materials.

Asbestos Paper. Orders for this material have been slow and it is anticipated that the overall business for this year will be less than last year. There has been no appreciable change in the *Millboard* market and no great upturn in business is expected for the balance of the year. The *Saturated Paper* market is normal for this season. Volume of sales at present is below the year's average with production generally ahead.

Insulation. High Pressure. This market appears to be slightly improved over last month. Competition is very keen for the business which is available even though there is a large volume of work to be bid. A slight pickup is anticipated for the last two months of the year.

Insulation. Low Pressure. Orders for this product are about equal to the same period last year. The balance of this year should show a slight decrease in comparison with last year.

Asbestos Cement Products. This market is seasonally good, although volume for the year is expected to be off 10-12%.

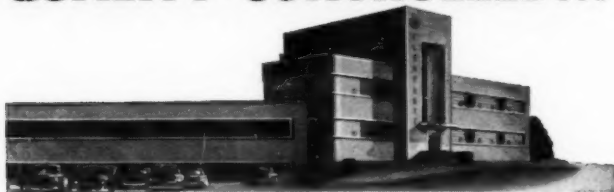
Industrial leads for *Corrugated and Flat* are few and far between and appears to be the outlook for the balance of the year.

Order placements for *Roofing & Siding* exceed those for last month and should result in a good month.

The present market for *A-C Pipes* is spotty due to seasonal decline. It is anticipated that from now until early Spring asbestos-cement pipe booking will be on a relatively low basis.

The above comments have been made by various informed informed executives in the Industry. All comments are welcome.

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada



AUTOMOBILE SALES

	August 1957
Passenger Cars	521,282
Motor Trucks	89,150
Motor Coaches	315

610,747

In August 1956, a total of 503,276 motor vehicles were sold. In the eight months of 1957 the total was 5,128,274.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

WILHELM BURGDORF

Importer of Raw Asbestos

P. O. Box 1131, BREMEN, GERMANY

ASBESTOS-CEMENT MACHINERY

Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

Your inquiries are most welcome

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(Successors to Asbestos-Cement Associates, Inc.)

255 West Street

Rutland, Vermont

ASBESTOS FIBRES

ASBESTOS WASTE

Frank G. Ruggles Co. Inc.

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Now . . .
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WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing



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**OF EVERY SHAPE
AND DIMENSION**



- TOUGH**
- RESILIENT**
- COMPACT**
- WATERPROOF**

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

*Inquiries for Details, Quotations and References are
welcome.*

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Cable: MINITA—MILANO

Phone: 26 67 27

BUILDING

September contracts for future construction in the United States totalled \$2,624,928,000, an increase of two percent over September 1956, F. W. Dodge Corporation, construction news and marketing specialists, reported.

Dollar volume of residential contracts in September amounted to \$1,151,294,000, an increase of 10 percent compared to the like 1956 month.

Increased activity in contracts for one- and two-family houses accounted for a great part of the gain in dollar volume in the total residential category.

Dodge contract figures for September, for the first time this year, reported a gain in the number of single-family houses. The 71,102 units in September were three percent above the like month of a year ago.

The total number of dwelling units contracted for in September amounted to 86,397, an increase of seven percent compared to September 1956.

Dollar volume of non-residential contracts in September amounted to \$940,864,000, an increase of one percent over the like month of a year ago. Contracts were up for commercial, educational and science, social and recreational, and public buildings.

Heavy engineering contracts in September totalled \$532,770,000, a decrease of 11 percent compared to the corresponding 1956 month. Although dollar volume of contracts was up for streets and highways and bridges, decreases in contracts in other heavy engineering sub-categories accounted for the loss.

The cumulative total of contracts for future construction in the first nine months of 1957 amounted to \$25,301,580,000, an increase of two percent over the like period of 1956.

SMITH & KANZLER CO.

Manufacturers of
ASBESTOS PAPER

Pipe Covering & Blocks

Air Cell

Wool Felt

Anti Sweat

Anti Freeze

Sponge Felt

Multi Ply

Established 1920

East Linden Ave., Linden, N.J.

A new booklet of "Safety Slogans . . . From Everywhere, For Everyone," published by the National Safety Council, contains more than 1,000 slogans to fit any safety situation. "No matter what aspect of accident prevention you want to put across," says a flyer giving information on how to order the booklet, plus its cost, "safety slogans will help pave the way."

Copies of the flyer may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

The National Fire Codes, a compilation of 168 fire safety standards as developed by the National Fire Protection Association, have just been published by the NFPA in a revised six-volume 1957 edition.

Incorporated in the 1957 Codes are 41 new or revised fire safety standards which were adopted at the 1957 NFPA Annual Meeting in May. These standards also include all amendments approved by the NFPA Board of Directors up to and including July 30, 1957.

The National Fire Codes, six dollars per volume, may be obtained from the Publications Department, National Fire Protection Association, 60 Batterymarch Street, Boston 10, Massachusetts.

HERMAN HOLLANDER, INC.

154 Nassau Street
New York 38, N. Y.

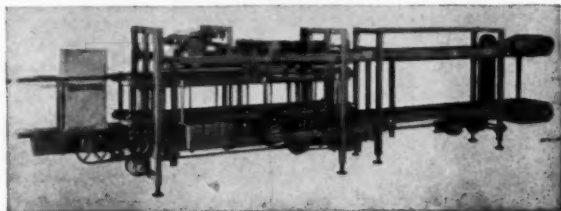
**RHODESIAN CHRYSOTILE
ASBESTOS**

regular supplies of long Spinning Grades, Filter Grades,
shorter Grades (comparable 3T and 3Z)

Affiliate: A. J. Hollander (Rhod) (Pvt), Ltd.
Bulawayo, Rhodesia.

PACKOMATIC Shows the way to increased efficiency in your **BALE SEALING** operation.

- **ADJUSTABLE**—to the accepted range of **ASBESTOS** Bale Sizes.
- **AUTOMATIC**—can be furnished with or without tucking device.
- **NEW**—engineered with the most advanced electrical and mechanical features available.
- **STURDY**—built for efficient-trouble-free performance to give long years of continuous service—finest workmanship and materials.
- **CUSTOM—DEVELOPED OUT OF THE EXPERIENCE IN THE ASBESTOS INDUSTRY.**



USERS:

Canadian Johns-Manville Corp.
The Ruberoid Company
Flintkote Mines, Ltd.

We are represented in the principal cities of the United States, Canada and Overseas Export Offices in New York City.

Your direct inquiry will receive prompt attention.

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T. M. REG. U. S. PAT. OFF.

PACKAGING MACHINERY

J. L. FERGUSON CO JOLIET, ILL.

Chicago, New York, Boston, Philadelphia, Tampa,
Cleveland, Denver, San Francisco, Los Angeles,
Baltimore, Seattle, Portland, Dallas, New Orleans

MINERAL MARKET REPORT MMS NO. 2658
(From U. S. Bureau of Mines)

The world output of asbestos during 1956 was nearly the same as in 1955, 1¼ million tons, according to reports by producers to the Bureau of Mines, United States Department of the Interior. Canadian production decreased slightly but remained still over a million tons.

Production within the United States, which amounted to about 2 percent of the world production, declined for the third consecutive year. Actual figures for 1956 were 41,626 tons, compared with 44,752 tons in 1955. Domestic sources supplied less than 6 percent of the United States requirements of asbestos, and Vermont remained the principal producing State. Production in Arizona decreased 24 percent in 1956! 94 percent of the production of crudes numbers 1, 2 and 3 was purchased by the General Services Administration.

	Tons	1956	Tons	1955
		Value		Value
Domestic Asbestos:				
Sold or used by				
Producers	41,312	\$4,742,446	44,568	\$4,487,428
Imports				
(Unmfrd.)	289,034	61,829,275	740,423	60,957,578
Exports				
(Unmfrd.)	2,950	374,964	2,787	267,776
Apparent				
Consumption	727,396	66,196,757	782,204	65,177,230

TURNERS ASBESTOS CEMENT COMPANY

H. T. Cadbury-Brown has been appointed consulting designer to the Turners Asbestos Cement Company, a member of the Turner and Newall organization, to assist in future designing of asbestos cement products.



Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

**A natural
fire barrier
as workable
as wood**

A unique insulation board, workable as wood, Asbestolux combines more inherent advantages than any similar material.

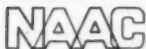
Long-fibered Amosite asbestos and a selected grade of silica with special properties are bonded under heat and pressure. Light and strong, Asbestolux is incombustible, and stable.

*Write for
Bulletin J-850.*



ASBESTOLUX

FIREPROOF INSULATION BOARD



In the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building • Chicago 4, Illinois



In Canada

CAPE ASBESTOS (CANADA) LIMITED

200 Bloor Street East • Toronto, Ontario

Subsidiaries of The Cape Asbestos Company, Ltd., London

ROCKBESTOS PRODUCTS PURCHASE LAND FOR NEW FACTORY

The purchase of two pieces of land totaling thirty-seven acres in North Haven as a site for a plant and office building has been announced by Albert S. Redway, president of the Rockbestos Products Corporation.

In making the announcement, Mr. Redway emphasized that no definite rate has been set for the start of construction. He said this would depend on many factors, including the general business situation.

The site is approximately three miles from the company's present location in New Haven at the corner of Nicoll Street and Mitchell Drive.

The company is going right ahead with plans to finish the design details for the new building which would house all its present operations and allow for an expansion program during the next few years.

KEASBEY & MATTISON CO. New Appointments

The appointment of *William A. Endriss* as Quality Control Supervisor of magnesite and industrial insulation products has been announced.

Mr. Endriss was formerly a technical field service representative of Bigelow-Sanford Carpet Company in New York City.

Charles R. Meek has been promoted to Quality Control Manager. He was formerly assistant control manager. He joined the Keasbey & Mattison Company in June 1953 as a quality control supervisor at the Santa Clara, California asbestos-cement pipe factory.

Marvin R. Streepy has been promoted to assistant to the quality control manager. Mr. Streepy was formerly a quality control supervisor and joined Keasbey & Mattison in 1953.

Ralph L. Lantz has been appointed to the newly created position of Planning and Inventory Department Manager, reporting directly to the president. He was formerly quality control manager and joined K&M in 1936.

Robert M. Russell has been promoted to supervisor of Production and Planning. He joined K&M in March 1943 and was formerly assistant production manager.

AUSTRALIAN ASBESTOS PRODUCTION INCREASING

Canberra: Expanding markets for blue asbestos produced at Wittenoom Gorge, Western Australia, have led to the installation of new plant at the mine operated by Australian Blue Asbestos Limited, it is reported. The new plant will cost A£350,000.

Production last year was 8,500 tons and the target for this year is 13,000 tons. Half of this output is sold to the United States and the remainder mainly to Europe, Japan and India.

**ASBESTOS
FIBRE**

OF ALL TYPES

**BRANDHURST COMPANY
LIMITED**

**Vintry House
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**Telephone:
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London**

PRODUCTION STATISTICS

CANADA

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for August 1957 (Quebec)	92,011 tons
Other Provinces	3,938

95,949

Total production for August 1956 was 98,316 tons.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Commerce)

Tons 2000 lbs.

Production for June 1957	11,312.97 tons
Valued at	£772,337
Production for June 1956	9,733.71 tons
Valued at	£709,122

Australia — Statistics

(Published by Bureau of Mineral Resources)

Tons 2240

Quarter Ending
March 31, 1957

Production

Chrysotile	295 tons
Crocidolite	2,314
	2,609

Imports

Amosite	2,258 tons
Chrysotile	2,508
Crocidolite	84
Other	147
	4,997

Exports

Chrysotile	30 tons
Crocidolite	2,584
Other	48
	2,662

UNIBESTOS®

...the single-layer
pipe insulation for
more protection...
bigger savings



Unibestos protects pipelines up to 1200° F. Single-layer construction cuts application costs...seals in more heat at the joints than double-layer insulations. Available in sectional form through 44" O.D.

UNARCO...for the best in asbestos insulation:

TEXTILES

Cloth (plain and metallic)
Woven Tapes
Gasket Cloth

Sheet Packings
Front End Tape

FLEXIBLES

Insutube—slip-on
Insutape—wrap-on
Insubestos Felt

Wovenstone®—lace-on
Specialty Insulation

PACKING

High Pressure Rod Packing
Blue Asbestos Packing—
acid resistant

Square Braided Packing
Valve Stem Packings—
twisted and braided

Joint Runners
High Pressure Packing—
semimetallic



Write for new 40-page catalog

UNION ASBESTOS & RUBBER COMPANY

1111 West Perry Street • Bloomington, Illinois.

IMPORTS AND EXPORTS

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

		July 1957
		Tons (2240 lbs.)
From: Canada		44,336
Union of S. Africa		2,375
Australia		948
Rhodesia (Ny.)		521
Yugoslavia		598
United Kingdom		80
Other Countries		46
		<hr/> 48,904
Valued at		\$4,850,662

By Grades:

Crude, No. 2, Chrysotile	10
Crude, Other, Chrysotile, Canada	108
Crude, Other, Chrysotile, Yugoslavia	598
Crude, Other, Chrysotile, Rhodesia (Ny)	521
Crude, Blue, Australia	948
Crude, Blue, U. of S. Africa	1,086
Crude, Amosite, U. S. Africa	1,289
Textile Fibres, Chrysotile, Canada	1,705
Textile Fibres, Chrysotile, Other Ctys.	36
Shingle Fibres, Chrysotile, Canada	5,510
Paper Fibres, Chrysotile, Canada	2,744
Other Fibres, Chrysotile, Canada	34,259
Other Fibres, Chrysotile, United Kingdom	80
	<hr/> 48,904

Manufactured Asbestos Goods:

		July 1957
		Quantity (lbs.) Value
Asbestos Yarn, United Kingdom	31,925	\$ 25,285
Asbestos Packing & Lining	23,007	13,095
Asbestos Shingles (Impreg.)	57,807	4,815
Asbestos Shingles (Not Impreg.)		
Canada	774,875	65,867

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



***Producers of
Raw Asbestos Crudes
& Fibres***



Sales Representatives

for

Cassiar Asbestos Corporation Limited

Italy	3,381,107	144,195
Other Countries	70,207	5,722
Asbestos Manufactures — Others.....	3,550
	<hr/> 4,338,928	<hr/> \$262,529

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	July 1957	
	Tons (2240 lbs.)	Value
To Europe	5	\$ 1,693
South America	100	13,036
United Kingdom	5	1,108
Other Countries	18	4,886
	<hr/> 128	<hr/> \$20,723

Manufactured Asbestos Goods:

	July 1957	
	Quantity	Value
Asbestos Cement & Pipe Covering Lbs.	236,478	\$ 57,466
Asbestos Textiles & Yarn	Lbs. 210,204	101,154
Asbestos Packings	Lbs. 97,637	144,193
Asbestos Clutch Facings	No. 127,104	91,473
Asb. Bk. Lng. (Mld. & S. Mld.)	Lin. Ft. 167,893	53,280
Asbestos Brake Lining, Rolls	Lin. Ft. 43,185	41,746
Asbestos Brake Lining, Other	Lbs. 363,528	302,842
Asbestos Construction Materials	Lbs. 4,281,914	450,544
Asbestos Manufactures — Others	46,527
		<hr/> \$1,289,225

WILLIAM H. LACHMAN RETIRES FROM KEASBEY & MATTISON CO.

In the year 1904 William H. Lachman started his business career as an office boy in Ambler. Fifty-three years later he completed a life-time of service with one company. His retirement has been announced by Keasbey & Mattison Company. He is a member of K&M's Quarter Century Club.

Mr. Lachman held several key managerial positions with the Company during his business career. In 1909 he was promoted to head of the Plant 1 cost department; in 1912 he was placed in charge of shipping in the same factory and became the plant production manager in 1925. In 1941 he was promoted to production manager of all K&M factories nationally.

CAPE BLUE ASBESTOS

Direct from the Mines or from
stocks in London



TRANSVAAL BLUE • AMOSITE
CHRYSTILE • ANTHOPHYLLITE



*Processing of all grades of Asbestos
carried out in our London Works.*



CENTRAL ASBESTOS

Co., LTD.

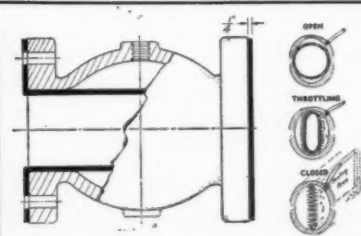
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'Phone BERMONDSEY 3864 Cables CENBESTOS LONDON
CENTRAL ASBESTOS (S. A.) PTY LTD. P.O. BOX 3570 JOHANNESBURG

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	July 1957	
	Tons (2000 lbs.)	Value
Crude		
United States	11	\$ 8,803
United Kingdom		
South America		
Central America & Mexico		
European Countries		
Other Countries		
	11	\$ 8,803
Milled		
United States	10,644	\$1,882,878
United Kingdom	2,856	595,971
South America	2,360	423,946
Central America & Mexico	55	8,580
European Countries	10,555	2,366,003
Other Countries	5,981	1,040,151
	32,451	\$6,017,529
Shorts		
United States	39,168	\$1,926,123
United Kingdom	4,335	185,804
South America	508	50,786
Central America & Mexico	50	4,100
European Countries	8,114	424,478
Other Countries	1,470	118,949
	53,645	\$2,710,240
Grand Total — Unmanufactured Asbestos	86,107	\$8,736,572
Manufactured Asbestos Goods:		
Brake Lining		\$ 50,604
Packing		348
Other Materials		\$6,500
		\$ 137,452



RED JACKET VALVES

For Crude or
Refined Asbestos

CARNEGIE, PA.

***Strong and flexible...
never unravels!***



J-M Asbestos Tape

A combination of exceptional electrical and thermal insulating properties with high tensile strength makes Johns-Manville Asbestos Tape a highly useful and versatile product. It insulates wires, coils, cables and other electrical conductors; controls heat in small steam pipes and bends; serves as a conveyor belt for hot materials; and, with wire inserts, is used where high temperatures and abrasive conditions prevail or where greater

physical strength is required.

Johns-Manville Asbestos Oil Burner Wicking is a special type of tape made for maximum efficiency in this service. In addition to the generally used closely woven plain tapes, Johns-Manville furnishes open mesh weaves, looped edges and other styles. For more information, ask for new brochure TX-2A. Johns-Manville, Box 14, New York 16, N. Y. 10111 Canada, Port Credit, Ont.



Johns-Manville ASBESTOS TEXTILES

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- A. J. Scanlan, President, American Asbestos Textile Corporation, Norristown, Pa., November 21.
- M. P. Berney, President, Southern Insulation Corporation, Memphis, Tenn., November 22.
- J. A. Marcotte, General Sales Manager, Asbestos Corporation Limited, Thetford Mines, Canada, November 22.
- Daniel S. McGuire, President, Asbestos, Asphalt Insulation Inc., Chicago, Ill., November 23.
- Alvin C. McCord, President, McCord Radiator & Mfg. Company, Detroit, Michigan, November 24.
- E. J. O'Leary, Executive Vice President, The Ruberoid Co., New York City, November 24.
- L. W. Dennis, President, Cape Asbestos (Canada) Ltd., Toronto, Canada, November 27.
- Thomas C. Young, President, Pacific Roofing Co., Portland, Oregon, November 28.
- Frank N. Grossman, Secretary, Arnold Insulations Inc., Chicago, Ill., November 28.
- R. E. Kramig, Senior Partner, R. E. Kramig & Co., Cincinnati, Ohio, November 29.
- Jack Ordway, Jr., Vice President, MacArthur Company, St. Paul, Minn., November 29.
- W. L. Spielberger, Director in Charge of Finances, Keasbey & Mattison Company, Ambler, Pa., November 30.
- Frank G. Ruggles, President, Frank G. Ruggles & Company, New York City, N. Y., December 2.
- Harvey D. Burgstresser, Philadelphia Asbestos Company, Philadelphia, Pa., December 3.
- Irving Kevelson, Ace Asbestos Mfg. Company, Jersey City, N. J., December 4.
- D. A. McMillan, Vice President, Gulf States Insulation Company, Mobile, Ala., December 4.
- P. M. Berry, Secretary & Treasurer, Standard Asbestos Mfg. Company, Cleveland, Ohio, December 8.
- E. J. Fasold, Secretary & Asst. Treasurer, The Philip Carey Mfg. Company, Cincinnati, Ohio, December 8.
- Kenneth MacLellan, Managing Director, George MacLellan & Co., Ltd., Glasgow, Scotland, December 8.
- J. C. McKendry, President, Niagara Asbestos Company, Buffalo, N. Y., December 10.
- D. W. Widmayer, Vice President & Director in Charge of Sales, Keasbey & Mattison Co., Ambler, Pa., December 12.
- John O. Camp, Vice President, Southern Friction Materials Co., Charlotte, N. C., December 13.
- George P. Grossman, President, Asbestos Products Company, Inc., Cleveland, Ohio, December 13.



Exporters of
RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000 — CABLE: SOTSEBSA

VOLKSKAS BLDG. — 76 MARKET STREET

JOHANNESBURG - SOUTH AFRICA

ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.



Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N. Y.



Fred Lee Johnston, Superintendent, Southern Friction Materials Co., Charlotte, N. C., December 13.

Joseph Poulin, President & General Manager, Asbestos Corporation, Ltd., Montreal, Canada, December 15.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

THE RUBEROID CO.

Third Quarter Report

The Ruberoid Co reported that net sales and net income for third quarter of 1957 were the highest for any quarter in the company's 71 years. Sales for the period were up 13 percent and earnings increased 17 percent over the third quarter of 1956.

For the third quarter of 1957, net sales totaled \$24,783,136 and net income after taxes was \$1,794,360 compared with sales of \$21,905,839 and income of \$1,531,824 in the third quarter of 1956. In the first nine months net sales were \$62,016,207 and net income was \$3,697,960, or \$2.50 a share. In the same period of 1956 net sales amounted to \$59,297,957 and net income was \$3,205,118, or \$2.16 per share.

JOHNS-MANVILLE

THIRD QUARTER REPORT

Johns-Manville Sales in the third quarter this year reached \$85,235,000 to set a new record for any quarter. In the same period last year sales were \$81,489,000.

Consolidated earnings of Johns-Manville Corporation and subsidiary companies were \$5,733,000 for the third quarter of 1957, compared with \$6,968,000 for the same quarter last year.

Earnings per share of common stock were 81 cents on an average of 7,153,456 shares outstanding, compared with \$1.98 on an average of 6,431,177 shares last year.

For the year to date sales were \$233,307,000 and earnings were \$14,347,000 or \$2.01 per share, compared with sales of \$228,848,000 earnings of \$18,973,000 or \$2.95 per share for the first nine months last year.

ARMSTRONG CORK COMPANY

Changes in Personnel

John E. Zeller has been appointed to the newly created position of General Superintendent of Construction in Insulation Contract Operations of the Armstrong Cork Company.

Mr. Zeller will be replaced as an Assistant in Contract Operations by Robert H. Lawrence, who has served in the Baltimore District Office for the past 10 years.

Claude E. Foster, of Armstrong's Dallas District Office, has been transferred to Houston as Branch Manager.

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UNITED STATES RUBBER CO.

Changes in Personnel

John W. McGovern has been elected president of United States Rubber Co. and designated chief operating officer by the Board of Directors.

Formerly executive vice president, Mr. McGovern succeeds *H. E. Humphreys, Jr.* as president. Mr. Humphreys continues as chairman of the board of directors and chief executive officer.

Mr. McGovern, a native of Philadelphia, joined U. S. Rubber in 1920 as an accountant in Boston. After serving in numerous accounting, industrial engineering and production posts, Mr. McGovern became general manager of the tire division in 1943. He was elected a vice president in 1945, a director and member of the executive committee in 1951 and executive vice president in 1956.

At the same time, the board designated vice presidents *Eugene A. Luxenberger* and *George R. Vila* as group vice presidents.

Mr. Luxenberger, formerly vice president and general manager of the footwear and general products division, will be responsible to the president for the operation of the company's tire division, footwear and general products division, and mechanical goods division.

Mr. Vila, formerly vice president and general manager of the chemical division, will be responsible to the president for the operation of Dominion Rubber Co., Ltd., Latex Fibre Industries, Inc., and the chemical, textile, international, and plantation divisions.

The board also elected *Earle S. Ebers* a vice president and appointed him general manager of the chemical division succeeding Mr. Vila. *C. William Pennington* was elected a vice president and appointed general manager of the company's footwear and general products division succeeding Mr. Luxenberger.

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Producers of

CRUDES

and

FIBERIZED ASBESTOS

The World's Finest Fibres

DRAWER 71

GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

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Their special needled construction permits the water to drain faster, even at higher speeds. This is the result of years of research by experienced Designers, to bring you a *new* type of felt — DURASORB — offering maximum water removal while retaining all the other characteristics for long life, finish, stability and uniformity.

Ask your Albany Felt Sales Engineer for full information on the outstanding performance of DURASORB Felts for asbestos-cement shingles, siding and sheets.



ALBANY
FELT COMPANY

Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me
St. Stephens, S. C., Cowansville, P. O.

KEASBEY & MATTISON COMPANY

On October 28, *Charles C. Sprangers*, Chicago District Building Materials Manager for the Keasbey & Mattison Company, joined sales and marketing executives from throughout the Midwest at Chicago's Hotel Morrison to participate in a fast-paced new "traveling school" aimed at giving field sales executives complete knowledge of the skills and techniques essential to success during this period of rapid change in the marketing pattern. The Chicago Field Sales Management Course will be co-sponsored by National Sales Executives, Inc. and the Chicago Sales Executives Club working together to palliate a steadily worsening headache for many companies—training in field sales supervision—one of the most neglected areas of sales education.

BRAKE SHOE NAMES BEARING DIVISION ADVERTISING AND RESEARCH MANAGER

William C. George has been appointed Manager of Advertising and Market Research for the National Bearing Division of American Brake Shoe Company.

Mr. George joined Brake Shoe in 1939 as a member of the sales and promotion staff of the American Manganese Steel Division. He was transferred to the Electro-Alloys Division in 1946 and has since worked in the sales departments of the Brake Shoe and Castings and the National Bearing Divisions. He will be located in Meadville, Penna.



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Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples are available on request.

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View of Kuruman Main Mill

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**LONG FIBRE ASBESTOS DISCOVERED
ON TULARE CO. INDIAN RESERVATION**

Amphibole asbestos, found in fibrous form up to 3 feet long and 4 inches thick, is reported by George A. Heintz, 3260 Clatte Dr., Porterville, Cal. The discovery is reported in a Porterville dispatch as follows:

A point discovery of industrial crude asbestos has been made on the Tule River Indian reservation by Kenneth McDarment, LeRoy Kunert and George A. Heintz, all of Porterville.

The discovery was made while the men were searching for commercial Barite and Tungsten. The asbestos outcrop was found in a schist formation, about 4,000-feet elevation.

Pending a complete report from Eastern and California assayers, the three partners are continuing their search for the "glory hole"; the fibrous material has been found in lengths up to three feet, four inches thick.

Operating as the Suerra Shan Ri La Company, the three men are working on a special prospecting permit issued by the Tribal Council of the reservation, the U. S. Department of the Interior, and the Bureau of Indian Affairs.

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Coming in Mid-1958:



New Source of Quality Chrysotile ASBESTOS

ASARCO and Lake Asbestos of Quebec, Ltd., are dredging and draining a 500-acre lake to convert it into one of the richest sources of high quality, longer fibre chrysotile asbestos in the world today.

By next year ASARCO's new major open-pit asbestos mine and newly constructed, modern mill will begin to produce 100,000 tons of asbestos annually. ASARCO has no plans for fabricating asbestos products, so this entire supply will be at your disposal.

If you manufacture or use any of the hundreds of products containing asbestos, you'll want to get acquainted with this dependable new source of supply soon.



Lake Asbestos of Quebec, Ltd.

A Subsidiary of

AMERICAN SMELTING AND REFINING COMPANY

120 Broadway • New York 5, N. Y.

UNITED STATES RUBBER CO.**Nine Months' Report**

Net profit of United States Rubber Co. was \$22,982,452, equivalent to \$3.40 a share of common stock for the first nine months of 1957. This net profit compares with \$23,453,685, equivalent to \$3.54 a share, in the same period last year.

Included in this year's net profit is \$3,500,000, or 62 cents a common share, from the sale of the company's wire and cable business to Kaiser Aluminum & Chemical Corp. on February 1, 1957.

Net sales for the nine-month period were \$665,360,840, compared with \$675,147,998 for the same period last year. Net profit was equivalent to 3.5 per cent of sales in both years.

CURRENT RANGE OF PRICE

As of November 10, 1957

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft).....	\$1,500.00 to \$1,750.00
No. 2 Crude (soft).....	900.00 to 1,050.00
No. 3 Crude (soft).....	400.00 to 450.00
Filter Fibre (soft).....	250.00 to 450.00
No. 1 Crude (semi-soft).....	1,200.00 to 1,500.00
No. 2 Crude (semi-soft).....	900.00
No. 3 Crude (semi-soft).....	400.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency

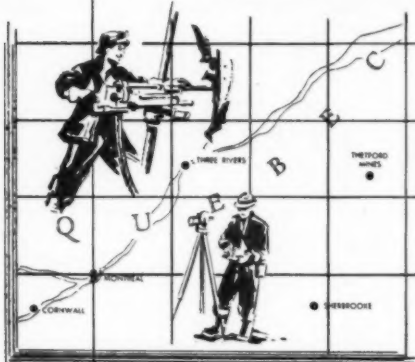
Group No. 1 (Crude No. 1)	\$1,475.00 to \$1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00 to 1,200.00
Group No. 3 (Spinning Fibre).....	370.00 to 650.00
Group No. 4 (Shingle Fibre)	180.00 to 245.00
Group No. 5 (Paper)	120.00 to 150.00
Group No. 6 (Waste, Stucco or Plaster) 86.00
Group No. 7 (Refuse or Shorts)	40.00 to 80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering).....	\$ 353.00 to \$ 383.00
Group No. 4 (Shingle Fibre).....	172.00 to 190.00
Group No. 5 (Paper Fibre).....	114.00 to 145.00
Group No. 6 (Waste, Stucco or Plaster) 82.00
Group No. 7 (Refuse or Shorts).....	39.00 to 72.00

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THE RUBEROID CO.

New Appointment

The Ruberoid Co. has announced the appointment of *Charles Lloyd Sell* as the firm's assistant general traffic manager. Mr. Sell, who will make his headquarters in South Bound Brook, N. J., has already assumed his new duties.

Mr Sell has worked in industrial traffic administration and management almost all his adult life. He began his career as a traffic clerk for Western Electric Company in 1940, worked in the same capacity for Ruberoid from 1948 to 1953. For the past four years he was traffic analyst for Union Carbide Corporation.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)
October 1957

	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	39	47	40½
Amer. Br. Shoe (Pfd.)	100
Armst. Ck. (Com.)	1	22½	25½	23½
Armst. Ck. (Pfd.)	np	80	82	81
Asbestos Corp. (Com.)	np	25½	28¼	25½
Carey (Com.)	10	23½	26½	23½
Cassiar Asb. Corp.	np	\$5.25	\$6.70	\$5.90
Celotex (Com.)	1	23¼	31¾	25¾
Celotex (Pfc.)	20	16	17	16¼
Certainteed (Com.)	1	8	8½	8½
Fibreboard Paper Prod. (Com.) ...	np	19¾	24½	21¾
Fibreboard Paper Prod. (Pfd.)	100	82	91	82
Flintkote (Com.)	5	34½	40¾	37½
Flintkote, (Pfd.)	np	82½	83	83
Johns-Manville (Com.)	5	36¾	43¼	39¾
Natl. Gypsum (Com.)	1	35½	42¼	37¾
Natl. Gypsum (Pfd.)	np	84½	87	85
Ray-Man (Com.)	1	48¾	52¾	50¾
Ruberoid (Com.)	1	30¼	34	31¼
Thermoid (Com.)	1	10¼	13¾	11¾
Thermoid (Pfd.)	50	42½	48	43
Union Asb. & Rub. (Com.)	5	5¾	7½	5¾
United Asb. (Com.)	1	\$4.00	\$5.50	\$4.40
U. S. Gypsum (Com.)	4	57	65¾	60½
U. S. Gypsum (Pfd.)	100	151½	151½	151½
U. S. Rubber (Com.)	5	34	39¾	36¾
U. S. Rubber (Pfd.)	100	139	142½	140½

RAW ASBESTOS DISTRIBUTORS

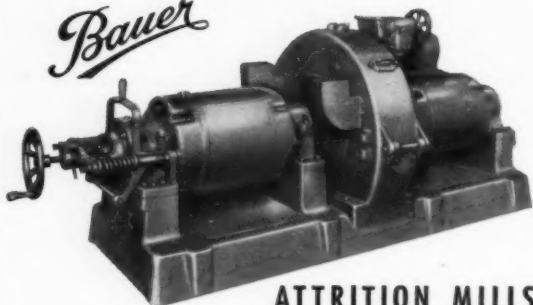
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These mills reduce screenings and floats to minus 80 mesh.

They upgrade minus 65 mesh fiber.

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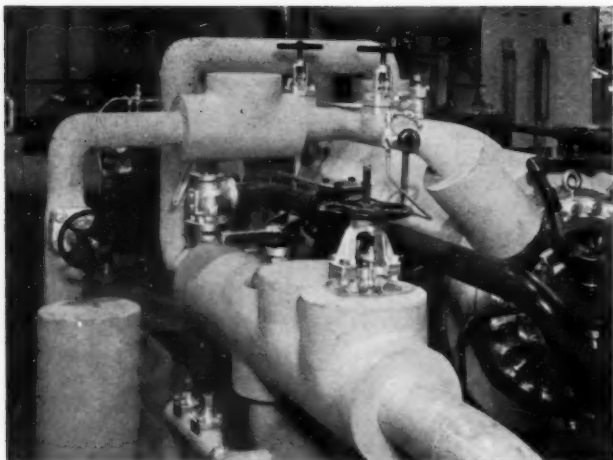
You are invited to ask for literature and complete information. Our engineering and research facilities are at your service.

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Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations. For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

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Fibreboard Paper Products Corporation
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Houston 4 • New York 16 • Los Angeles

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents (in coin) to the Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Vacuum Control For Gravity, No. 2,806,599. Granted on September 17, 1957 to B. E. Patrick (assignor to Irene Cottrell, Los Angeles, Calif.). Vacuum control for eliminating the "water hammer" action in wet cyclones used for classification of mineral ores and nonmetallics, for example asbestos fibre.

Thermal Insulating Bodies and Method of Manufacture, No. 2,808,338. Granted on October 1, 1957 to A. J. Bruno and S. Spell (assignors to Johns-Manville Corp., New York City). Manufacture of lightweight, handeable heat insulation shapes having low thermal conductivity. A moldable mixture of an aerogel and a staple reinforcing fibre, such as amosite asbestos fibre, is shaped and heated to optimum temperature. Asbestos fibre should grade at least 25% longer than 1/2-inch, and individual fibres should be less than 20 microns in diameter. Approximately 5 percent, by weight, of the fibre is preferred.

Method For Preparing Self Lubricating, Asbestos Containing Stuffing Box Packings, No. 2,809,397. Granted on October 15, 1957 to J. Zagorski and J. Zagorski. Method for producing self-lubricating packing for stuffing boxes. Twenty to 60 parts asbestos fibre are mixed with 5 to 15 parts finely divided abrasive material, such as soot or ground glass, so as to loosen the fibre. This material is mixed with 30 to 65 parts of a dry, finely divided lubricating mineral, such as graphite, talc, or steatite. Packing shapes molded from this mixture are resistant to temperature up to 600°C.

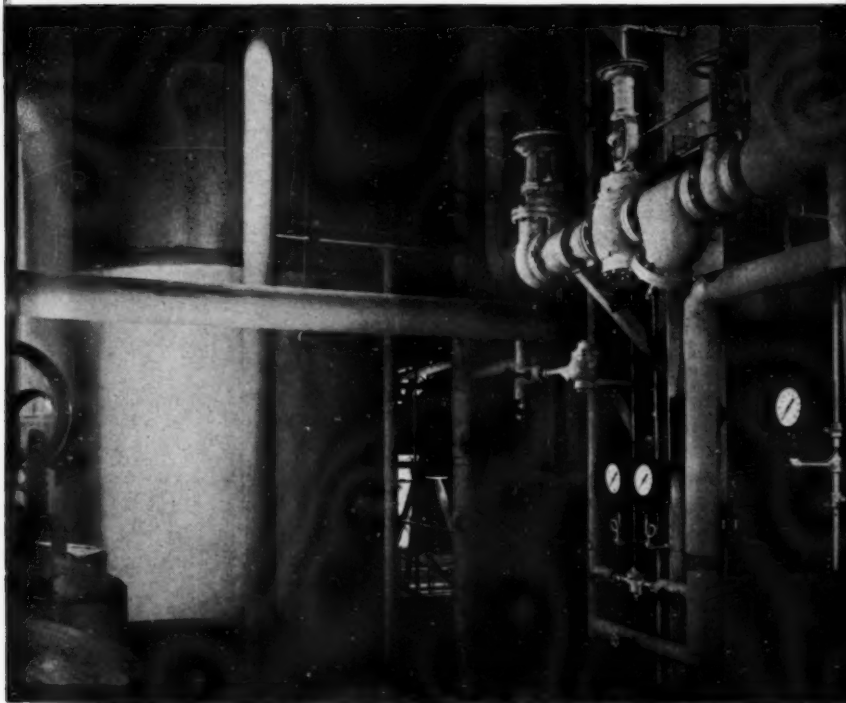
Molding Compositions Containing Mineral Fillers and Products Produced Therefrom, No. 2,809,946. Granted on October 15, 1957 to J. R. Blegen and T. G. Custer (assignors to General Electric Co., a corporation of N. Y.). A novel resinous molding composition used for manufacturing molded articles having improved water resistance and electrical properties comprises a polymerized unsaturated polyester, acid-washed pyrobole or chrysotile asbestos fibre, and a lead salt. A ground mineral filler also may be added if desired. The commercial pyrobole asbestos product known as Powminco 25-P (Powhatan Mining Corp.), is especially suitable.

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The THERMALITE 85% Magnesia Insulation in this boiler room is typical of the faultless work of Ehret-approved contractors. Only men fully skilled in the application of Ehret products are entrusted with their installation. Result: Full insulating value and long, trouble-free

service life with economical heating.

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SOUTHERN ASBESTOS — TEXTILES



SOUTHERN ASBESTOS COMPANY, CHARLOTTE 1, N. C.

